

525 532

Rec'd PCT/PTO

23 FEB 2005

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
11 March 2004 (11.03.2004)

PCT

(10) International Publication Number  
WO 2004/019948 A1

(51) International Patent Classification<sup>7</sup>: A61K 31/519, (74) Agent: GILL JENNINGS & EVERY; Broadgate House, A61P 25/06, 25/16, 25/30, 43/00 7 Eldon Street, London EC2M 7LH (US).

(21) International Application Number:  
PCT/GB2003/003720

(22) International Filing Date: 28 August 2003 (28.08.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0220064.0 29 August 2002 (29.08.2002) GB  
0316115.5 9 July 2003 (09.07.2003) GB

(71) Applicant (for all designated States except US): ARACHNOVA THERAPEUTICS LTD. [—/—]; 95 Halkett Place, St. Helier, Jersey JE1 1BX (\*\*).

(72) Inventors; and

(75) Inventors/Applicants (for US only): CAVALLA, David [GB/GB]; Arachnova Ltd., St. John's Innovation Centre, Cambridge CB4 0WS (GB). GRISTWOOD, Robert, William [GB/GB]; Arachnova Ltd., St. John's Innovation Centre, Cambridge CB4 0WS (GB).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/019948 A1

(54) Title: NEW THERAPEUTIC USES OF (4-(2-FLUOROPHENYL)-6-METHYL-2-(1-PIPERAZINYL) THIENO[2,3-D]PYRIMIDINE

(57) Abstract: (4-(2-Fluorophenyl)-6-methyl-2-(1-piperazinyl)thieno[2,3-D]pyrimidine or a salt thereof has value in the treatment of fibromyalgia, obesity, weight gain and other conditions.